

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/014583

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B29B13/06 B29C31/02 B29C45/18 B29C47/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29B B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 597 852 A (UNGER ET AL) 28 January 1997 (1997-01-28) column 4, lines 33-51; claim 1; figure 1; example 1 column 1, lines 22,48-58 column 2, lines 37-49	1-13
X	GB 905 160 A (INVENTA, A.G. FÜR FORSCHUNG UND PATENTVERWERTUNG) 5 September 1962 (1962-09-05) pages 1-2; figure 1 ----- -/--	1-6,8-13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

25 February 2005

Date of mailing of the international search report

04/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Kofoed, J

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/014583

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 012, no. 055 (M-669), 19 February 1988 (1988-02-19) & JP 62 201204 A (KONISHIROKU PHOTO IND CO LTD; others: 01), 4 September 1987 (1987-09-04)	1-3,5,6, 10-13
Y	abstract	7-9
Y	US 2003/000100 A1 (LUDWIG ALFONS ET AL) 2 January 2003 (2003-01-02) paragraphs '0017!', '0020!', '0031! - '0036!', '0040!	7-9
X	PATENT ABSTRACTS OF JAPAN vol. 003, no. 123 (C-061), 16 October 1979 (1979-10-16) & JP 54 103463 A (UNITIKA LTD), 14 August 1979 (1979-08-14) abstract	1,2,4,6, 10,11,13

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/EP2004/014583

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5597852	A	28-01-1997	DE 4314345 A1	17-11-1994
			DE 59406176 D1	16-07-1998
			EP 0633108 A1	11-01-1995
			ES 2117168 T3	01-08-1998
GB 905160	A	05-09-1962	CH 372468 A	15-10-1963
			FR 1226101 A	08-07-1960
			NL 246619 A	
			NO 115602 B	28-10-1968
JP 62201204	A	04-09-1987	NONE	
US 2003000100	A1	02-01-2003	DE 19957664 A1	31-05-2001
			AT 249326 T	15-09-2003
			AU 5437601 A	12-06-2001
			BG 106744 A	30-04-2003
			BR 0015991 A	06-08-2002
			CA 2394013 A1	07-06-2001
			CN 1402663 T	12-03-2003
			CZ 20021885 A3	16-10-2002
			DE 50003676 D1	16-10-2003
			WO 0139947 A1	07-06-2001
			EP 1235671 A1	04-09-2002
			ES 2207569 T3	01-06-2004
			HU 0204032 A2	28-03-2003
			JP 2003515471 T	07-05-2003
			MX PA02005044 A	09-12-2002
			SI 1235671 T1	31-12-2003
			SK 7512002 A3	04-02-2003
			TR 200201445 T2	23-12-2002
			TW 487621 B	21-05-2002
			ZA 200204231 A	28-05-2003
JP 54103463	A	14-08-1979	JP 1273430 C	11-07-1985
			JP 59049881 B	05-12-1984